

# CDS participation in IVOA

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## IVOA Standards with CDS participation

### Current reference document on IVOA Architecture

#### *IVOA Architecture, Version 1.0*

Author(s): Christophe Arviset, Severin Gaudet and the IVOA Technical Coordination Group (including **S. Derriere**, **F. Genova**, **M. Louys\***)

Editor(s): Christophe Arviset

IVOA Note, 23 November 2010

<http://www.ivoa.net/Documents/Notes/IVOAArchitecture/index.html>

### IVOA Documents and Standards can be found at

<http://www.ivoa.net/Documents/>

## 2003

#### *IVOA Document Standards, Version 1.0*

Author(s): IVOA Executive Committee (incl. **F. Genova**)

Editor(s): R. J. Hanisch, A. E. Linde

*IVOA Recommendation 24 October 2003, obsoleted by Version 1.2*

IVOA Standard, <http://www.ivoa.net/Documents/DocStd/20031024/>

## 2004

#### *VOTable Format Definition, Version 1.1*

Author(s): **François Ochsenbein**, Roy Williams, Clive Davenhall, Daniel Durand, **Pierre Fernique**, David Giarretta, Robert Hanisch, Tom McGlynn, Alex Szalay, Mark B. Taylor, Andreas Wicenec

Editor(s): **François Ochsenbein**

*IVOA Recommendation 11 August 2004, obsoleted by Version 1.2*

IVOA Standard, <http://www.ivoa.net/Documents/VOTable/20040811/>

## 2005

#### *An IVOA Standard for Unified Content Descriptors, Version 1.10*

Author(s): **Sébastien Derriere**, Norman Gray, Robert Mann, Andrea Preite Martinez, Jonathan McDowell, Thomas Mc Glynn, **François Ochsenbein**, Pedro Osuna, Guy Rixon, Roy Williams

Editor(s): **Sébastien Derriere**, Andrea Preite Martinez, Roy Williams

*IVOA Recommendation 19 August 2005*

IVOA Standard, <http://www.ivoa.net/Documents/latest/UCD.html>

***The UCD1+ controlled vocabulary, Version 1.11***

Author(s): Andrea Preite Martinez, **Sébastien Derriere**, Norman Gray, Robert Mann, Jonathan McDowell, Thomas Mc Glynn, **François Ochsenbein**, Pedro Osuna, Guy Rixon, Roy Williams

Editor(s): **S. Derriere**, A. Preite Martinez

*IVOA Recommendation 31 December 2005*

IVOA Standard, <http://www.ivoa.net/Documents/cover/UCDlist-20051231.html>

**2006**

***Maintenance of the list of UCD words, Version 1.20***

Author(s): Nausicaa Delmotte, **Sébastien Derriere**, Norman Gray, Robert Mann, Jonathan McDowell, Thomas Mc Glynn, **François Ochsenbein**, Pedro Osuna, Andrea Preite Martinez, Guy Rixon, Roy Williams

Editor(s): A. Preite Martinez, **S. Derriere**

*IVOA Recommendation 28 May 2006*

IVOA Standard, <http://www.ivoa.net/Documents/latest/UCDlistMaintenance.html>

**2007**

***The UCD1+ controlled vocabulary, Version 1.23***

Author(s): Andrea Preite Martinez, **Sebastien Derriere**, Nausicaa Delmotte, Norman Gray, Robert Mann, Jonathan McDowell, Thomas Mc Glynn, **François Ochsenbein**, Pedro Osuna, Guy Rixon, Roy Williams

Editor(s): A. Preite Martinez, **S. Derriere**

*IVOA Recommendation 02 April 2007*

IVOA Standard, <http://www.ivoa.net/Documents/cover/UCDlist-20070402.html>

**2008**

***Simple Spectral Access Protocol, Version 1.04***

Author(s): D.Tody, M. Dolensky, J. McDowell, **F. Bonnarel**, T.Budavari, I.Busko, A. Micol, P.Osuna, J.Salgado, P.Skoda, R.Thompson, F.Valdes, and the Data Access Layer Working Group.

Editor(s): D.Tody, M. Dolensky

*IVOA Recommendation 01 February 2008*

IVOA Standard, <http://www.ivoa.net/Documents/latest/SSA.html>

***Data Model for Astronomical DataSet Characterisation, Version 1.13***

Author(s): IVOA Data Model Working Group

Editor(s): **Mireille Louys\***, Anita Richards, **François Bonnarel**, Alberto Micol, Igor Chilingarian, Jonathan McDowell

*IVOA Recommendation 25 March 2008*

IVOA Standard, <http://www.ivoa.net/Documents/latest/CharacterisationDM.html>

## 2009

### ***SAMP, Simple Application Messaging Protocol, Version 1.11***

Author(s): Mark Taylor, **Thomas Boch**, Michael Fitzpatrick, Alasdair Allan, Luigi Paioro, John Taylor, Douglas Tody

Editor(s): **Thomas Boch**, Michael Fitzpatrick, Mark Taylor

*IVOA Recommendation 21 April 2009, obsoleted by Version 1.2*

IVOA Standard, <http://www.ivoa.net/Documents/cover/SAMP-20090421.html>

### ***Vocabularies in the Virtual Observatory, Version 1.19***

Author(s): **Sébastien Derriere**, Alasdair J G Gray, Norman Gray, Frederic V Hessman, Tony Linde, Andrea Preite Martinez, Rob Seaman and Brian Thomas

Editor(s): Alasdair J G Gray, Norman Gray, Frederic V Hessman, Andrea Preite Martinez

*IVOA Recommendation 07 October 2009*

IVOA Standard, <http://www.ivoa.net/Documents/latest/Vocabularies.html>

### ***VOTable Format Definition, Version 1.2***

Author(s): **Francois Ochsenbein**, Roy Williams

Editor(s): **Francois Ochsenbein**

*IVOA Recommendation 30 November 2009*

IVOA Standard, <http://www.ivoa.net/Documents/VOTable/20091130/>

## 2010

### ***Document Standards, Version 1.2***

Author(s): R.J. Hanisch, C. Arviset, **F. Genova**, B. Rino

Editor(s): R.J. Hanisch

*IVOA Recommendation 13 April 2010*

IVOA Standard, <http://www.ivoa.net/Documents/DocStd/20100413/>

### ***VOSpace specification, Version 2.0***

Author(s): Matthew Graham, Dave Morris, Guy Rixon, Pat Dowler, **André Schaaff**, Doug Tody

Editor(s): Matthew Graham

*IVOA Working Draft 12 November 2010*

<http://www.ivoa.net/Documents/VOSpace/20101112/index.html>

### ***Web Services Basic Profile, Version 1.0***

Author(s): **André Schaaff**, Matthew Graham

Editor(s): Matthew Graham

*IVOA Recommendation 16 December 2010*

IVOA Standard, <http://www.ivoa.net/Documents/WSBasicProfile/20101206/>

### ***Simple Application Messaging Protocol, Version 1.2***

Author(s): M. Taylor, **T. Boch**, M. Fitzpatrick, A. Allan, L. Paioro, J. Taylor, D. Tody

Editor(s): **T. Boch**, M. Fitzpatrick, M. Taylor

*IVOA Recommendation 16 December 2010*

IVOA Standard, <http://www.ivoa.net/Documents/SAMP/20101216/index.html>

## 2011

### ***Observation Data Model Core Components and its Implementation in the Table Access Protocol, Version 1.0***

Author(s): **Mireille Louys\***, **Francois Bonnarel**, David Schade, Patrick Dowler, Alberto Micol, Daniel Durand, Doug Tody, Laurent Michel, Jesus Salgado, Igor Chilingarian, Bruno Rino, Juan de Dios Santander, Petr Skoda

Editor(s): Doug Tody, Alberto Micol, Daniel Durand, **Mireille Louys\***

IVOA Recommendation 28 October 2011

<http://www.ivoa.net/Documents/ObsCore/20111028/index.html>

### ***Spectrum Data Model, Version 1.1***

Author(s): Jonathan McDowell, Doug Tody, Tamas Budavari, Markus Dolensky, Inga Kamp, Kelly McCusker, Pavlos Protopapas, Arnold Rots, Randy Thompson, Frank Valdes, Petr Skoda, Bruno Rino, **Sebastien Derriere**, Jesus Salgado, Omar Laurino and the IVOA Data Access Layer and Data Model Working Groups

Editor(s): Jonathan McDowell, Doug Tody

IVOA Recommendation 20 November 2011

<http://www.ivoa.net/Documents/SpectrumDM/20111120/index.html>

## 2012

### ***Simple Application Messaging Protocol, Version 1.3***

Author(s): M. Taylor, **T. Boch**, M. Fitzpatrick, A. Allan, J. Fay, L. Paoro, J. Taylor, D. Tody

Editor(s): **T. Boch**, M. Fitzpatrick, M. Taylor

IVOA Recommendation 11 April 2012

<http://www.ivoa.net/Documents/SAMP/20120411/>

### ***Simple Spectral Access Protocol, Version 1.1***

Author(s): Doug Tody, Markus Dolensky, Jonathan McDowell, **Francois Bonnarel**, Tamas Budavari, Ivo Busko, Alberto Micol, Pedro Osuna, Jesus Salgado, Petr Skoda, Randy Thompson, Frank Valdes, and the Data Access Layer working group

Editor(s): Doug Tody

IVOA Recommendation 10 February 2012

<http://www.ivoa.net/Documents/SSA/20120210/index.html>

### ***Simulation Data Model, Version 1.0***

Author(s): Gerard Lemson, Laurent Bourges, Miguel Cervino, Claudio Gheller, Norman Gray, Franck LePetit, **Mireille Louys\***, Benjamin Ooghe, Rick Wagner, Herve Wozniak

Editor(s): Gerard Lemson, Herve Wozniak

IVOA Recommendation 3 May 2012

<http://www.ivoa.net/Documents/SimDM/20120503/index.html>

***Characterisation DM: Complements and new features. Observation quality and variability - complex datasets, Version 1.0***

Author(s): **Francois Bonnarel**, Igor Chilingarian, **Mireille Louys**, Juande Santander Vela, Jesus Salgado

Editor(s): **Francois Bonnarel**

*IVOA Working Draft 29 October 2012*

<http://www.ivoa.net/documents/Characterisation2/20121029/WD-Characterisation2-1.0-20121029.pdf>

## **2013**

***VOTable Format Definition, Version 1.3***

Author(s): **Francois Ochsenbein**, Roy Williams, Clive Davenhall, Markus Demleitner, Daniel Durand, **Pierre Fernique**, David Giaretta, Robert Hanisch, Tom McGlynn, Alex Szalay, Mark Taylor, Andreas Wicenec

Editor(s): **Francois Ochsenbein**, Mark Taylor

*IVOA Recommendation 20 September 2013*

<http://www.ivoa.net/documents/VOTable/20130920/REC-VOTable-1.3-20130920.html>

***VOSpace specification, Version 2.0***

Author(s): Matthew Graham, Dave Morris, Guy Rixon, Pat Dowler, **Andre Schaaff**, Doug Tody

Editor(s): Matthew Graham

*IVOA Recommendation 29 March 2013*

<http://www.ivoa.net/documents/VOSpace/20130329/REC-VOSpace-2.0-20130329.html>

***Photometry Data Model, Version 1.0***

Author(s): Jesus Salgado, Carlos Rodrigo, Pedro Osuna, **Mark Allen**, **Mireille Louys**, Jonathan McDowell, Deborah Baines, Jesus Maiz Apellaniz, Evanthia Hatziminaoglou, **Sebastien Derriere**, Gerard Lemson

Editor(s): Jesus Salgado, Pedro Osuna

*IVOA Recommendation 05 October 2013*

<http://www.ivoa.net/documents/PHOTDM/20131005/index.html>

***DataLink, Version 1.0***

Author(s): Patrick Dowler, **Francois Bonnarel**, **Laurent Michel**, Tom Donaldson, David Languignon

Editor(s): Patrick Dowler

*IVOA Working Draft 22 October 2013*

<http://www.ivoa.net/documents/DataLink/20131022/WD-DataLink-1.0-20131022.pdf>

## 2014

### *MOC - HEALPix Multi-Order Coverage map, Version 1.0*

Author(s): **Thomas Boch**, Tom Donaldson, Daniel Durand, **Pierre Fernique**, Wil O'Mullane, Martin Reinecke, Mark Taylor

Editor(s): **Pierre Fernique**

*IVOA Recommendation 02 June 2014*

<http://www.ivoa.net/documents/MOC/20140602/REC-MOC-1.0-20140602.pdf>

### *DataLink, Version 1.0*

Author(s): Patrick Dowler, **François Bonnarel**, **Laurent Michel**, Tom Donaldson, David Languignon, Markus Demleitner

Editor(s): Patrick Dowler

*IVOA Working Draft 28 February 2014*

<http://www.ivoa.net/documents/DataLink/20140228/WD-DataLink-1.0-20140228.pdf>

### *DataLink, Version 1.0*

Author(s): Patrick Dowler, **Francois Bonnarel**, **Laurent Michel**, Markus Demleitner

Editor(s): Patrick Dowler

*IVOA Working Draft 05 May 2014*

<http://www.ivoa.net/documents/DataLink/20140505/WD-DataLink-1.0-20140505.pdf>

### *DataLink, Version 1.0*

Author(s): Patrick Dowler, **Francois Bonnarel**, **Laurent Michel**, Markus Demleitner

Editor(s): Patrick Dowler

*IVOA Proposed Recommendation 30 May 2014*

<http://www.ivoa.net/documents/DataLink/20140530/PR-DataLink-1.0-20140530.pdf>

### *Units in the VO, Version 1.0*

Author(s): Markus Demleitner, **Sebastien Derriere**, Norman Gray, **Mireille Louys**, **Francois Ochsenein**

Editor(s): **Sebastien Derriere**, Norman Gray

*IVOA Recommendation 23 May 2014*

<http://www.ivoa.net/documents/VOUnits/20140523/VOUnits-REC-1.0-20140523.pdf>

## 2015

### *Dataset Metadata Model, Version 1.0*

Author(s): **Francois Bonnarel**, Omar Laurino, Gerard Lemson, **Mireille Louys\***, Arnold Rots, Doug Tody, and the IVOA Data Model Working Group.

Editor(s): Mark Cresitello-Dittmar

*IVOA Working Draft 02 March 2015*

<http://www.ivoa.net/documents/DatasetDM/20150302/WD-DatasetDM-1.0-20150320.pdf>



***N-Dimensional Cube Model, Version 1.0***

Author(s): Doug Tody, **Francois Bonnarel**, Omar Laurino, **Mireille Louys\***, Arnold Rots, Jose Enrique Ruiz, Jesus Selgado, and the IVOA Data Model Working Group.

Editor(s): Mark Cresitello-Dittmar

*IVOA Working Draft 20 March 2015*

<http://www.ivoa.net/documents/NDimCubeDM/20150320/WD-CubeDM-1.0-20150320.pdf>

***Server-side Operations for Data Access, Version 1.0***

Author(s): **François Bonnarel**, Markus Demleitner, Patrick Dowler, Douglas Tody

Editor(s): **François Bonnarel**

*IVOA Working Draft 21 December 2015*

<http://www.ivoa.net/documents/SODA/20151221/index.html>

***DataLink, Version 1.0***

Author(s): Patrick Dowler, **François Bonnarel**, **Laurent Michel**, Markus Demleitner

Editor(s): Patrick Dowler

*IVOA Recommendation 17 June 2015*

<http://www.ivoa.net/documents/DataLink/20150617/REC-DataLink-1.0-20150617.pdf>

***Simple Image Access, Version 2.0***

Author(s): Patrick Dowler, Doug Tody, **François Bonnarel**

Editor(s): Patrick Dowler, **François Bonnarel**

*IVOA Recommendation 23 December 2015*

<http://www.ivoa.net/documents/SIA/20151223/>

**2016**

***Dataset Metadata Model, Version 1.0***

Author(s): **Francois Bonnarel**, Omar Laurino, Gerard Lemson, **Mireille Louys**, Arnold Rots, Doug Tody, and the IVOA Data Model Working Group.

Editor(s): Mark Cresitello-Dittmar

*IVOA Working Draft 17 March 2016*

<http://www.ivoa.net/documents/DatasetDM/20160317/index.html>

***Simulation Data Access Layer, Version 1.0***

Author(s): David Languignon, Franck Le Petit, Carlos Rodrigo, Gerard Lemson, Marco Molinaro, **Hervé Wozniak**

Editor(s): David Languignon, Franck Le Petit

*IVOA Working Draft 03 May 2016*

<http://www.ivoa.net/documents/SimDAL/20160503/index.html>

***HiPS - Hierarchical Progressive Survey, Version 1.0***

Author(s): **Pierre Fernique, Mark Allen, Thomas Boch**, Tom Donaldson, Daniel Durand,  
Ken Ebisawa, **Laurent Michel**, Jesus Salgado, Felix Stoehr

Editor(s): **Pierre Fernique**

*IVOA Working Draft 23 June 2016*

<http://www.ivoa.net/documents/HIPS/20160623/index.html>

## CDS participation in IVOA, 2015-2016

2015-2016

*A list of acronyms is given at the end of this section to facilitate reading.*

### ***Role in IVOA structure (October 2016)***

- F. Genova, Executive Board Member representing France, Chair of the *Standing Committee on Standards & Processes*; Chair of the *Data Curation & Preservation Interest Group*
- M.G. Allen, Chair of the *Standing Committee on Science Priorities*, editor of the bi-annual IVOA Newsletter
- M. Louys, Chair of the *Semantics Working Group* since May 2015
- P. Fernique, Chair of the *Applications Working Group* since May 2014
- F. Bonnarel, Chair of the *Data Access Layer Working Group* since May 2014

### ***CDS Presentations at the IVOA Interoperability meetings***

#### **Interoperability Sexten, 15-19 June 2015**

<http://wiki.ivoa.net/twiki/bin/view/IVOA/InterOpJune2015>

- Plenary 1: lundi 15 juin 2015
  - Charge to the Working Groups:
    - WG Applications (**P. Fernique**, T. Donaldson)
    - WG DAL (**F. Bonnarel**, M. Molinaro)
    - WG GWS (**A. Schaaff**, B. Major)
    - WG Semantics (**M. Louys**, N. Gray)
- Application 1:
  - MOCPy (**T. Boch**)
- Application 2:
  - Taphandle status & prospec (L. Michel)

- SIMBAD TAP service is evolving to simplify the usage for all users (**A. Oberto**)
- Application 3:
  - ArchesWalker (L. Michel, **A. Schaaff**)
- Registry 1: Registry Development and Operation
  - Harvesting the IVOA Registry for B2Find (**A. Schaaff**)
- Registry 2: with DAL and Apps
  - MOC server: Who and where... in a few milliseconds (**P. Fernique, T. Boch, F.-X. Pineau, A. Oberto**)
- DAL 2:
  - SIAV2 and AccessData Status & SIAV2 implementations interoperability Demo (**F. Bonnarel**)
- DAL/DM Joint Session:
  - Obscore-1.1 (**M. Louys**)
  - WCS Aspects (**F. Bonnarel**)
- Operations Interest Groups
  - Operation 2: Using VO Validation Services and Operations Strategies
    - Integrating New Resources into VizieR (**G. Landais**)
- Semantics
  - Current Status on UCD list (**M. Louys, A. P. Martinez, S. Derriere, F. Ochsenbein**)
  - Assignment tools and good practices (**S. Derriere**)
- CSP
  - IVOA Science Priorities (**M. Allen**)
  - CSP Closing remarks (**M. Allen**)
- Plenary 2: vendredi 19 juin 2015
  - Charge to the Working Groups:
    - WG Applications (**P. Fernique, T. Donaldson**)
    - WG DAL (**F. Bonnarel, M. Molinaro**)

- WG GWS (**A. Schaaff**, B. Major)
- WG Semantics (**M. Louys**, N. Gray)

## **Interoperability Sydney, 30 October-1 November 2015**

**<http://wiki.ivoa.net/twiki/bin/view/IVOA/InterOpOct2015>**

- Plenary 1: vendredi 30 octobre 2015
  - Charge to the Working Groups:
    - WG Applications (**P. Fernique**, T. Donaldson)
    - WG DAL (**F. Bonnarel**, M. Molinaro)
    - WG DM (**L. Michel**, M. Cresitello-Dittmar)
    - WG Semantics (**M. Louys**, A. Accomazzi)
    - IG DCP (**F. Genova**)
- Plenary 2: dimanche 1er novembre 2015
  - Charge to the Working Groups:
    - WG Applications (**P. Fernique**, T. Donaldson)
    - WG DAL (**F. Bonnarel**, M. Molinaro)
    - WG DM (**L. Michel**, M. Cresitello-Dittmar)
    - WG Semantics (**M. Louys**, A. Accomazzi)
    - IG DCP (**F. Genova**)
- Application 1
  - HiPS for the ASTRODEEP portal (**S. Derriere**)
  - HiPS state of the art (**P. Fernique**)
- DAL 2: "follow-up of session 1, AccessData, DAL future, VTP, SimDAL, TAPREgExp"
  - AccessData status (**F. Bonnarel**)
  - DAL future (**F. Bonnarel**, M. Molinaro)

- DM 1
  - Characterisation 2.0 (**F. Bonnarel, M. Louys**, I. Chilingarian, **L. Michel**)
- DM 2
  - VODML-generating utypes from vo-dml-xml (**F. Bonnarel**)
  - Obscure DM v 1.1 (**M. Louys**, D. Tody, P. Dowler, D. Durand, **L. Michel, F. Bonnarel**, A. Micol)
- Operations Interest Groups
  - Operations 1: Building VO Services
    - General Discussion on Techniques and Practice for Building Robust VO Services (**T. Boch**, M. Demleitner, M. Molinaro...)
- Semantics/Data Curation and Preservation
  - Status of the Research Data Alliance - Possible liaisons with Astronomy (**F. Genova**)
  - Unique identifiers for Observatory/Spacecraft nomenclature standardization (**M. Louys**, B. Cecconi, **S. Derriere**, P. Le Sidaner)
- Data Curation and Preservation
  - Introduction (**F. Genova**)
- GWS 1
  - Experiments with Hadoop & Spark, discussion (**A. Schaaff**, F.-X. Pineau, N. Wali)
- Science Priorities
  - Committee for Science Priorities (**M. Allen**)
- Science Priority Areas
  - CSP Summary (**M. Allen**)

**Interoperability Cape Town, 8-13 May 2016**

<http://www.france-ov.org/twiki/bin/view/Exposes/ExposesOVFInteropMai2016>

- Plenary 1: lundi 9 mai 2016

- Charge to the Working Groups:
  - WG Applications (**P. Fernique**, T. Donaldson)
  - WG DAL (**F. Bonnarel**, M. Molinaro)
  - WG DM (**L. Michel**, M. Cresitello-Dittmar)
  - WG Semantics (**M. Louys**, A. Accomazzi)
  - IG DCP (**F. Genova**)
- Plenary 2: vendredi 13 mai 2016
  - Charge to the Working Groups:
    - WG Applications (**P. Fernique**, T. Donaldson)
    - WG DAL (**F. Bonnarel**, M. Molinaro)
    - WG DM (**L. Michel**, M. Cresitello-Dittmar)
    - WG Semantics (**M. Louys**, A. Accomazzi)
    - IG DCP (**F. Genova**)
- Application 1:
  - The new CDS Portal, powered by HiPS and MOC (**T. Boch**)
  - Spectra & images in VizieR (**G. Landais**, **P. Ocvirk**)
- Application 2:
  - HiPS-IVOA standard process (**T. Boch**, D. Durand)
- Registry 1: Registry Development
  - Description and discovery of VizieR Resources in VO registries (**S. Derriere**)
- DAL 2: Cube DAL feedback and implementations
  - SODA, Proposed recommendation (**F. Bonnarel**)
  - Prototyping DL and SODA client in Aladin (**F. Bonnarel**, C. Koragappa, **P. Fernique**)
- DM 2: Provenance
  - Obscore 1.1 (**M. Louys**, D. Tody, P. Dowler, D. Durand, **L. Michel**, **F. Bonnarel**, A. Micol)
  - IVOA Provenance DM Discussion (**M. Louys**)

- Operations Interest Groups
  - Operation 1: Operations Review and Validation
    - MOC Validation (**P. Fernique, T. Boch**)
- Semantics
  - Minutes of the Semantics session (**M. Louys**, F. Le Petit)
- Focus Sessions on "Interoperability of data from major astronomy projects"
  - Introduction to the Focus Sessions (**M. Allen**)
- GWS 2
  - Xmatch using Spark/Hadoop (**A. Schaaff, F.-X. Pineau**, N. Wali)
- Time Domain Interest Group
  - Exploring Time Series in Vizier (**S. Derriere**)
- DCP
  - RDA Certification (**F. Genova**)
  - Some comments about my participation to RDA (Tokyo) (**A. Schaaff**)
- Edu Interest Group
  - Google Cardboards in astronomy (**A. Schaaff**, N. Deparis, N. Gillet, **G. Landais, P. Ocvirk**, D. Aubert...)



## ***List of acronyms***

Aladin	Sky atlas and data discovery tool
ARCHES	Astronomical Resource Cross-matching for High Energy Studies
CDS	Centre de Données astronomiques de Strasbourg
Char	Characterisation Data Model
CHARTAP	implementation of Characterisation DM with TAP service
CTA	Cherenkov Telescope Array
DAL	Data Access Layer
DCP	Data Curation & Preservation
DM	Data Model
G&WS	Grid & Web Services
HEALPix	Hierarchical Equal Area isoLatitude Pixelization of a sphere
HIPS	Hierarchical Progressive Survey
IG	Interest Group
IVOA	International Virtual Observatory Alliance
MOC	Multi-Order Coverage
ObsTAP	Observation Data Model Core Component using the Table Access Protocol (TAP)
ObsCoreDM	Observation Core Data Model
RDA	Research Data Alliance
SAMP	Simple Application Messaging Protocol
SIA	Simple Image Access
SIAP	Simple Image Access Protocol
SimDAL	Simulations Data Access Layer
SVO	Spanish Virtual Observatory
TAP	Table Access Protocol
UCD	Unified Content Descriptor

VObs or VO	Virtual Observatory
WCS	World Coordinate Systems
WG	Working Group
WS	Web Service